



**ENVIRONMENTAL TECHNICAL SERVICES**  
AN ENVIRONMENTAL CONSULTING FIRM

(800) 200-4ETS

2002 - 2003 ANNUAL REPORT  
DOCUMENTING THE IMPLEMENTATION OF THE  
OPERATIONS AND MAINTENANCE PLAN

**FORMER HECKATHORN NPL SITE**

**Located At The**

**LEVIN-RICHMOND TERMINAL CORPORATION  
402 WRIGHT AVENUE  
RICHMOND, CALIFORNIA**

June 2003

# **ENVIRONMENTAL TECHNICAL SERVICES**

1548 Jacob Avenue, San Jose, CA 95118 Phone (408) 267-6427 Fax (408) 267-9729

2002 - 2003 ANNUAL REPORT  
DOCUMENTING THE IMPLEMENTATION OF THE  
OPERATIONS AND MAINTENANCE PLAN

## **FORMER HECKATHORN NPL SITE**

**Located At The**

**LEVIN-RICHMOND TERMINAL CORPORATION  
402 WRIGHT AVENUE  
RICHMOND, CALIFORNIA**

  
\_\_\_\_\_  
Gary M. Levin  
Levin Richmond Terminal

  
\_\_\_\_\_  
Date

  
\_\_\_\_\_  
Helen Mawhinney  
Environmental Technical Services

  
\_\_\_\_\_  
Date

## TABLE OF CONTENTS

### 1 0 INTRODUCTION

- 1 1 Background
- 1 2 Current Site Use

### 2 0 CAP AND STORM WATER INTERCEPTORS

- 2 1 Description of Capping System
  - Concrete Cap
  - Geotextile Fabric and Gravel Cover
- 2 2 Inspection of Cap
- 2 3 Inspection of Drop Inlets and Interceptors
- 2 4 Purging and Cleaning of the Storm Drains
- 2 5 Analytical Results, Storm Water Evacuated from Drop Inlets

#### TABLE I

Composite Water Sample  
Storm Water Interceptors SW-3 through SW-7  
August 15, 2001

### 3 0 SAMPLING OF STORM WATER INTERCEPTORS SUBSEQUENT TO RAINFALL

### 4 0 BETTER BUSINESS PRACTICES / GOOD HOUSE KEEPING

- 4 1 Street Sweeper
- 4 2 Water Truck
- 4 3 Vacuum Truck
- 4 4 Brooms
- 4 5 Hay Bales
- 4 6 Absorbent Materials
- 4 7 Training
- 4 8 Marine Spill Emergency Response
- 4 9 Inspections

### 5 0 SUMMARY

APPENDICES

Appendix A

Plates

Appendix B

Clean Out Of Interceptor SW-2 Through SW-7  
Stormwater Composite Sample  
Laboratory Analytical Report

## 1 0 INTRODUCTION

This document is prepared for submittal to the United States Environmental Protection Agency (USEPA), Hazardous Waste Management Division Levin-Richmond Terminal Corporation (LRTC), in compliance with the State of California General Storm Water Permit for Discharges of Storm Water Associated with Industrial Activities (General Permit), has performed activities that are included in its Storm Water Monitoring Plan (SWMP) The SWMP also provides the basis for the evaluation of compliance with the General Permit and Storm Water Pollution Prevention Plan (SWPPP) The combination of the SWMP and the SWPPP comprises the storm water monitoring and pollution prevention plans for the entire 42-acre site and facilities owned and operated by LRTC

As required by the USEPA Consent Decree, dated April 22, 1996 and the completed Upland Cap Installation, Former United Heckathorn Facility, Richmond, California, the Operations and Maintenance Plan (O&M Plan) describes the procedures for the long-term management of the upland capping system at the 4.5-acre Heckathorn NPL Site The results of inspections, monitoring, and maintenance of the cap and drainage system are documented within this Annual Report The upland remedy implemented by LRTC and Levin Enterprises Inc was approved on September 30, 1999 There was no activity to report for the period ending June 2003 In order that the Annual Report of the O&M Plan may coincide with the Annual Report requirements of the SWMP and the SWPPP, LRTC submits both Annual Reports by June 30 of each year All referenced reports and documents are available at LRTC and will be sent to USEPA upon request

This document presents the June 2003 summary of recent inspection and maintenance by LRTC of the cap and associated storm water interceptors Submittal of Annual Reports will be made for the reporting period, ending June 30 of each year

## 1 1 Background

Environmental Technical Services (ETS) prepared and caused to be filed, on behalf of LRTC, the 2002-2003 Annual Report for Storm Water Discharges Associated with Industrial Activities, for the period ending June 2003 During the 2002 – 2003 reporting period no changes have been made to the Heckathorn NPL Site, including but not limited to material processes, capping, interceptors, and site construction Site observations, monitoring, and “Good Housekeeping Practices” are performed on a daily basis

## 1 2 Current Site Use

The Levin-Richmond Terminal Corporation operates a dry-bulk marine terminal encompassing approximately 42 acres. Total activities include uncovered storage of cargo materials such as metallurgical coke, furnace coke, sand, cottonseed, bauxite, and aggregates. The bulk cargo is stockpiled onsite and loaded onto vessels or unloaded from vessels to rail cars and trucks. The capped section of the former Heckathorn Site is used for stockpiling cargo and railroad operations.

## 2 0 CAP AND STORM WATER INTERCEPTORS

### 2 1 Description of Capping System

#### Concrete Cap

The cap is located in the upland area, location of the former United Heckathorn Facility. The cap consists of a minimum of six inches of concrete aggregates with reinforcing steel wire. The reinforcing steel consists of a double layer of 6' by 6' W4 5 X W4 5 steel-welded wire fabric (WWF). In some areas the cap overlies asphalt. In the other areas where asphalt does not exist, the cap overlies a double layer of 4-inch by 4-inch W4 5 X W4 5 WWF. In these areas the sub-grade was prepared and compacted according to the specification approved by the USEPA.

#### Geotextile Fabric and Gravel Cover

Some areas of the upland cap adjacent to railroad tracks and switches, where the storage and handling of bulk materials does not occur, were covered with a geotextile fabric and gravel. These areas consist of soils potentially containing pesticides. The geotextile membrane and six-inches of clean imported gravel cover these soils.

### 2 2 Inspection of Cap

The cap was inspected by Helen Mawhinney Environmental Specialist for Environmental Technical Services (ETS) on April 22, 2003, and found to be intact and in good condition. The cap is inspected monthly by ETS, while performing monthly storm water and "Good Housekeeping" observations. The cap was found to be uncompromised with only occasional surface "feather" cracks typical of those which develop subsequent to the curing of freshly poured concrete. The cracks are insignificant and not indicative of stress fractures. These surface cracks are too small to repair.

## 2 3 Inspection of Drop Inlets and Interceptors

Visual observations of storm water runoff and storm water systems are performed on an as-needed basis during shipping activities, significant rainfall, dry and wet seasons. Work areas and surface conditions are inspected on a daily basis, and the entire site is cleaned using LRTC's power vacuum and sweeper power brooms as part of LRTC's routine housekeeping. Site surfaces are kept clean to assist in ensuring sediment and contaminants do not enter nearby surface waters.

LRTC staff and Environmental Technical Services (ETS) perform site observations. ETS has been retained to perform random site inspections and to advise LRTC as to effective pollution prevention improvements. Mr. Lou Butty, of American Textiles, a pollution absorbent/prevention materials expert and vendor, performs site inspections during the wet season to evaluate the condition and placement of absorbent snakes, socks, pads, and fabrics.

LRTC's Storm Water Pollution Prevention Plan includes the inspection and documentation of drop inlet and interceptor conditions once each quarter, dry season, and annually. Monthly inspections are required during the wet season. LRTC and ETS have elected to document all inspection results on a monthly basis. The results are included in the Annual Report for Storm Water Discharges Associated with Industrial Activities.

## 2 4 Purging and Cleaning of the Storm Drains

Plans for cleaning the six storm water interceptors were developed and implemented by Levin Richmond Terminal personnel with Environmental Technical Services in July 2002.

Environmental Technical Services (ETS) collected a water sample from each interceptor on May 20, 2002. The samples were composited as one sample for analyses. The purpose of sampling/analyses was to determine if storm water contained within the interceptors could be discharged into the local sanitary sewer.

The composite water sample was designated as SW 2, 3, 4, 5, 6, 7. The sample was analyzed for Total Petroleum Hydrocarbons as gasoline, benzene, toluene, ethylbenzene, total xylenes (TPHg, & BTEX using EPA Method 8015 modified), Total Petroleum Hydrocarbons as diesel (TPHd, using EPA Method 8015 modified, extractable), motor oil (using EPA Method 413.1), pesticides (using EPA Method 8081), aluminum, copper, lead (using EPA Method 200.7), iron and zinc (using EPA Method 6010B), pH (using EPA Method 1501), total suspended solids (TSS, using EPA Method 160.2), and chemical oxygen demand (using EPA Method 410.4).

Certified clean, properly preserved bottles were supplied by Entech Analytical Laboratories. The bottles were stored in sealed plastic bags and placed within tightly sealed containers to prevent contamination. Helen Mawhinney of ETS collected the storm water samples. Ms. Mawhinney was trained in proper sample collection, storage, and maintenance of clean sample containers and equipment. A dedicated disposable bailer was used for each storm water drain. Disposable latex gloves were changed when an unclean surface was encountered and between samples. Headspace was eliminated in sample bottles and appropriate preservatives used.

Samples were stored in a clean cooler on clean ice and transported to a qualified hazardous waste laboratory, under chain of custody, within the sample holding time. Each sample was properly labeled with LRTC, interceptor number, preservative, date, time, and name of sampler.

Laboratory analytical results were presented to the City of Richmond Waste Water Division, Pretreatment Program, for review to determine if water removed during the storm water interceptor's cleaning process could be discharged into the sanitary sewer. Upon approval, the City of Richmond inspected the storm drains and sanitary sewer on July 26, 2003, and an Industrial Discharge Permit was issued. The Waste Water Division was notified 48-hours prior to the project start.

LRTC's OSHA certified personnel emptied and cleaned interceptors SW-2 through SW-7, under a site-specific Health and Safety Plan. LRTC began pumping water from the interceptors in August 2002, utilizing a specially equipped water truck. Water was discharged from the water truck directly into the sanitary sewer. Sediment was removed from the interceptors using storm water to liquefy the sediment, which was then pumped into the vacuum truck. Sediment was released from the truck onto 6-mil plastic and covered with 6-mil plastic bermed with K-Rail. Sediment was stored away from the drop inlets to be disposed of at a qualified landfill.

Subsequent to emptying, each interceptor's floor and sidewalls were pressure-washed. This process was repeated until all sediment had been removed and the cleaning of each interceptor complete.



## 2.5 Analytical Results, Storm Water Evacuated from Drop Inlets

**TABLE I**  
**Composite Water Sample**  
**Storm Water Interceptors SW-2 through SW-7**  
**May 20, 2002**

Sample ID	TPHg ppb	B Ppb	T ppb	E ppb	X ppb	TPHd ppb	Motor Oil ppb	MtBE ppb
SW-2, 3, 4, 5, 6, 7 (Composite)	ND	ND	ND	ND	ND	470.0	800.0	ND
Detection Limit	50.0	0.5	0.5	0.5	1.0	50.0	250.0	5.0

Sample ID	COD ppb	EC ppb	TOG ppb	pH ppb	TSS ppb	Pesticides ppb
SW-2, 3, 4, 5, 6, 7 (Composite)	23.0	270.0	ND	7.4	11.0	ND
Detection Limit	20.0	1.0	5.0	----	5.0	0.04 - 0.2

Sample ID	Aluminum Ppb	Copper ppb	Iron ppb	Lead ppb	Zinc ppb
SW-2, 3, 4, 5, 6, 7 (Composite)	0.35	0.023	0.91	ND	0.20
Detection Limit	0.05	0.005	0.05	0.015	0.005

### 3 0 SAMPLING OF STORM WATER INTERCEPTORS SUBSEQUENT TO RAINFALL

Rainfall did not occur through June 30, 2003 in quantities sufficient to create an outpour of storm water from interceptors SW3 through SW7. ETS and LRTC personnel, were able to empty all storm water and sediment from each interceptor prior to fall rainfall allowing LRTC to enter the rainy season with dry interceptors. This practice allows LRTC to prevent the discharge of water and sediments from these interceptors into the Lauritzen Channel and is scheduled to be repeated each year subsequent to seasonal rainfall.

### 4 0 BETTER BUSINESS PRACTICES / GOOD HOUSE KEEPING

Levin-Richmond Terminal Corporation has been working closely with Environmental Technical Services improving and upgrading each site process that could adversely impact the environment. Improvements are not limited to but include the following:

#### 4 1 Street Sweeper

In 2001 LRTC purchased an in-house Tennant vacuum power sweeper, which is scheduled to perform daily sweeping of outside surface areas, and cleanup following the loading of ships. The sweeper is also positioned and manned during appropriate cargo operations. The sweeper is covered by a maintenance contract and is fully maintained by Tennant's service technicians.

#### 4 2 Water Truck

An LRTC water truck has been converted to pump and contain water from interceptors SW-2 through SW-7 prior to permitted discharge into the sanitary sewer. This prevents the storm water within interceptors SW-3 through SW-7 from reaching levels that outflow into the Lauritzen Channel.

#### 4 3 Vacuum Truck

An LRTC vacuum truck has been converted to pump and contain sediments from drain inlets and interceptors.

#### 4 4 Brooms

LRTC operates two (2) IT-28 tractors with broom attachments to perform clean up of the capped surface following cargo operations

#### 4 5 Hay Bales

Hay bales are placed around the entirety of each interceptor and storm drain. During cargo handling storm drain inflows within the work area are covered with sediment proof fabric and hay bales. Interceptor SW-3, located near the hopper building, is covered with plastic when the hopper is in use, to prevent the dropping of material from the hopper onto the interceptor. The steel plate covering interceptor SW-7 has a tight seal. Therefore, it is doubtful material would enter the basin. However, covering the interceptor is an added precaution.

A daily inspection is conducted by supervisors of all working stockpiles, mobile equipment and conveying equipment, for containment and cleanliness to eliminate the buildup of material on jackwalls, equipment, roadways, and surfaces. Small spills are given the same attention as large spills.

Cargo stockpiles are stored away from surface waters, drains, and storm water inlets. L-Rail is placed around stockpiles for containment.

#### 4 6 Absorbent Materials

Mr. Lou Butty, of American Textile, was retained to direct the placement of appropriate absorbent snakes, socks, pillows, and filters, around and within each interceptor and storm drain. The absorbent materials are photosensitive and have a limited life span. Each absorbent type is closely monitored and on a replacement schedule. The absorbent materials are white, allowing easy detection of saturation with waste.

Clean up stations have been placed strategically throughout the site in close proximity to areas where potential contaminants are used or stored and within each work vehicle. These materials are stored in foil factory-sealed bags to maintain their integrity. Ample supplies of absorbents are stored at LRTC.

A Dock Emergency Response Station has been established to efficiently organize access to adequate cleanup supplies.

Exposed soil and ties beneath railroad car "parking stations" have been covered with "Trackmat", an absorbent fabric barrier, prescribed and provided by American Textiles. This material is scheduled for routine replacement.

Mr. Butty inspects LRTC's absorbent supply and placement at the beginning of each wet season, then instructs as to effective changes in material, quantity, or placement, which could increase filtration efficiency.

#### 4.7 Training

LRTC personnel working with potential contaminants are OSHA 40-hour Hazmat trained, with a yearly eight-hour refresher course. Qualified personnel are also spill-response trained.

On June 4, 5, and 6, 2002, Blue Water & Associates conducted training at LRTC. Seventeen LRTC employees completed certification. LRTC will continue annual training and certification.

Training included but was not limited to the following:

- OSHA Hazardous Materials Standard
- Recognizing hazardous materials
- Hazardous materials basics, terms, and definitions
- Hazardous communications (HMIS, NFPA, MSDS's, DOT and ERG)
- Decontamination
- Toxicology, PPE,
- Confined space entry
- Department of Transportation exercises
- Spill control, containment, and cleanup
- Emergency procedures, and ICS

#### 4.8 Marine Spill Emergency Response

LRTC maintains a verbal contract with Zaccor Companies Inc., an emergency response contractor, to respond to an LRTC marine spill, should one occur. Zaccor Companies contracts with FOSS Environmental Infrastructure to provide 24-hour emergency response on both land and water.

This contract includes providing emergency response vessels, personnel, absorbent consumables and Coast Guard approved oil containment boom

The Coast Guard Marine Safety Office (MSO), requires that each visiting cargo vessel must have an existing OSRO with an emergency response contract, prior to the Coast Guard allowing entry into US Ports

#### 4 9 Inspections

Daily inspections are conducted by supervisors and employees of all working stockpiles, mobile equipment, and conveying equipment, for containment and cleanliness to eliminate the buildup of material on jackwalls, equipment, roadways, and surfaces. Small spills are given the same attention as large spills.

LRTC staff and/or Environmental Technical Services (ETS) perform site observations. ETS has been retained to perform site inspections randomly and to advise LRTC as to effective pollution prevention improvements. Mr. Lou Butty, of American Textiles, a pollution absorbent/prevention materials expert and vendor, performs site inspections during the wet season to evaluate the condition and placement of absorbent snakes, socks, pads, and fabrics.

#### 5 0 SUMMARY

The finding and results submitted in this document satisfy the requirements of the Operations and Maintenance Plan, as stipulated by the USEPA Consent Decree for the completed Upland Cap Installation for the Former United Heckathorn Facility, Richmond, California.

## **CLEANING OF INTERCEPTORS SW-3 through SW-7**

Stormwater Sampling/Interceptor Preparation  
Richmond, California

Environmental Technical Services (ETS) collected a water sample on May 20, 2002, from each interceptor. The samples were composited in the field as one sample for analyses. Note: Entech Analytical Laboratories informed ETS that EPA QA/QC does not allow a laboratory to composite water samples for analyses of volatiles. The purpose of sampling/analyses was to determine if stormwater contained within the interceptors could be discharged into the local sanitary sewer. All analytical results were accepted by the City of Richmond Waste Water Division for discharge into the local sanitary sewer under an Industrial Discharge Permit.

The composite sample was designated as No. SW 2, 3, 4, 5, 6, 7. The sample was analyzed for Total Petroleum Hydrocarbons as gasoline, benzene, toluene, ethylbenzene, total xylenes (TPHg, & BTEX using EPA Method 8015 modified), Total Petroleum Hydrocarbons as diesel (TPHd, using EPA Method 8015 modified, extractable), motor oil (using EPA Method 413.1), pesticides (using EPA Method 8081), aluminum, copper, lead (using EPA Method 200.7), iron and zinc (using EPA Method 6010B), pH (using EPA Method 1501), total suspended solids (TSS, using EPA Method 160.2), and chemical oxygen demand (using EPA Method 410.4).

Refer to Table I for analytical results.

### **Purging and Cleaning of the Storm Drains**

Laboratory analytical results were presented to the City of Richmond Waste Water Division, Pretreatment Program, for review to determine if water removed during the storm water interceptor's cleaning process could be discharged into the sanitary sewer. Following approval, the City of Richmond inspected the storm drains and sanitary sewer and an Industrial Discharge Permit was issued. The water was pumped into a specially equipped water truck and then pumped into the sanitary sewer. Cleaning was scheduled with the Waste Water Division for inspection and duplicate sample collection, if desired, on the days of discharge.

Sediment was removed from the interceptors using stormwater to liquefy the sediment, which was then pumped into the vacuum truck. Sediment was released from the truck onto 6-ml plastic and covered with 6-ml plastic bermed with K-Rail. Sediment was stored away from the drop inlets, tested and transported to a qualified landfill.

Subsequent to emptying, the interceptor's floor and sidewalls were pressure-washed. This process was repeated until all sediment had been removed and the cleaning of each interceptor was complete.

### Pre-Interceptor Clean Out, Sanitary Sewer Discharge, Analytical Results

**TABLE I**  
**Composite Water Sample**  
**Storm Water Interceptors SW-2 through SW-7**  
**May 20, 2002**

Sample ID	TPHg ppb	B Ppb	T ppb	E Ppb	X Ppb	TPHd ppb	Motor Oil ppb	MtBE ppb
SW-2, 3, 4, 5, 6, 7 (Composite)	ND	ND	ND	ND	ND	470.0	800.0	ND
Detection Limit	50.0	0.5	0.5	0.5	1.0	50.0	250.0	5.0

Sample ID	COD ppb	EC ppb	TOG Ppb	pH ppb	TSS ppb	Pesticides ppb
SW-2, 3, 4, 5, 6, 7 (Composite)	23.0	270.0	ND	7.4	11.0	ND
Detection Limit	20.0	1.0	5.0	--	5.0	0.04-0.2

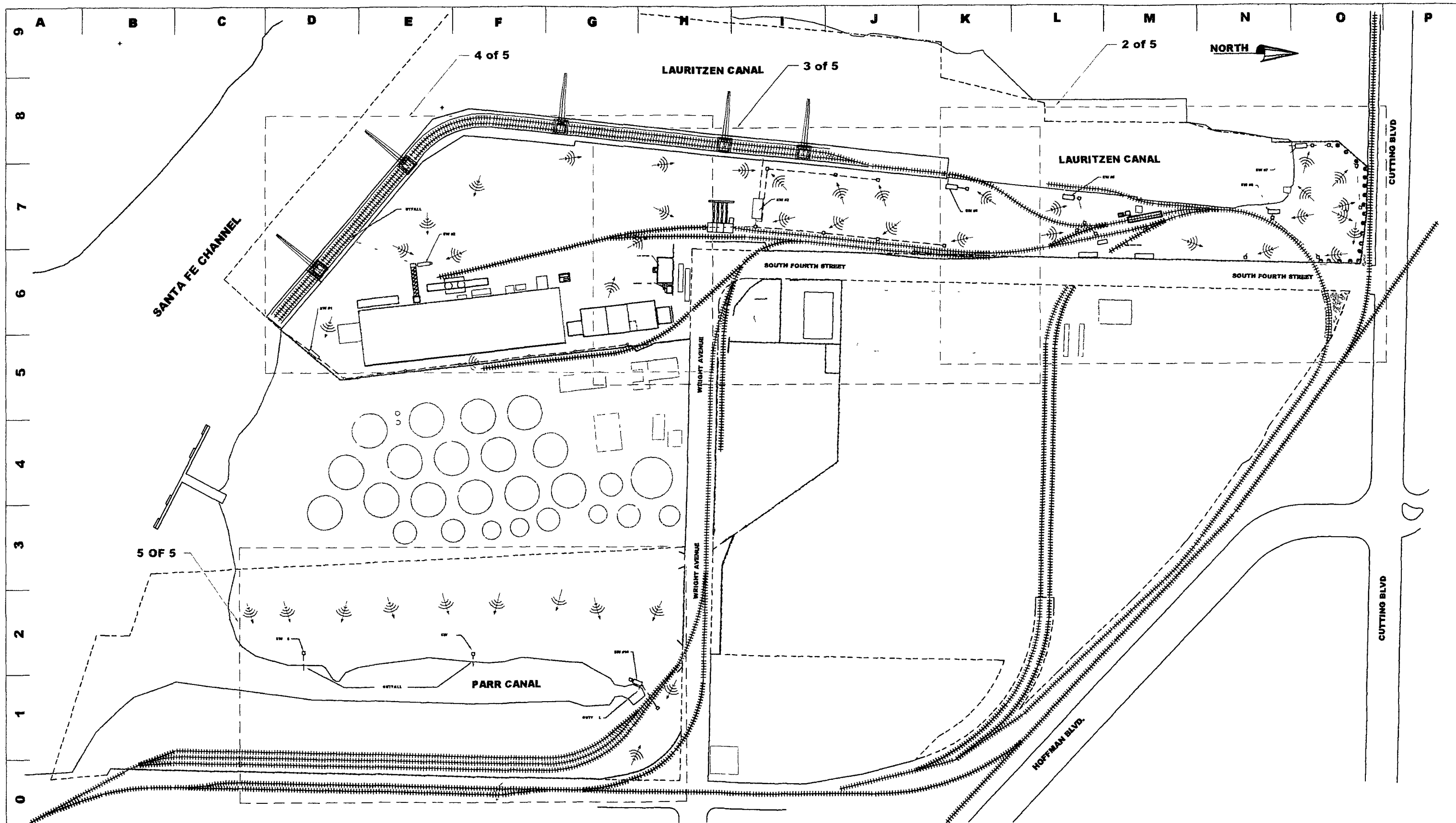
Sample ID	Aluminum Ppb	Copper Ppb	Iron ppb	Lead ppb	Zinc ppb
SW-2, 3, 4, 5, 6, 7 (Composite)	0.35	0.023	0.91	ND	0.20
Detection Limit	0.05	0.005	0.05	0.015	0.005

ND = Not detected at the lower detection limit for this analysis

**Appendix A**

**Plates**

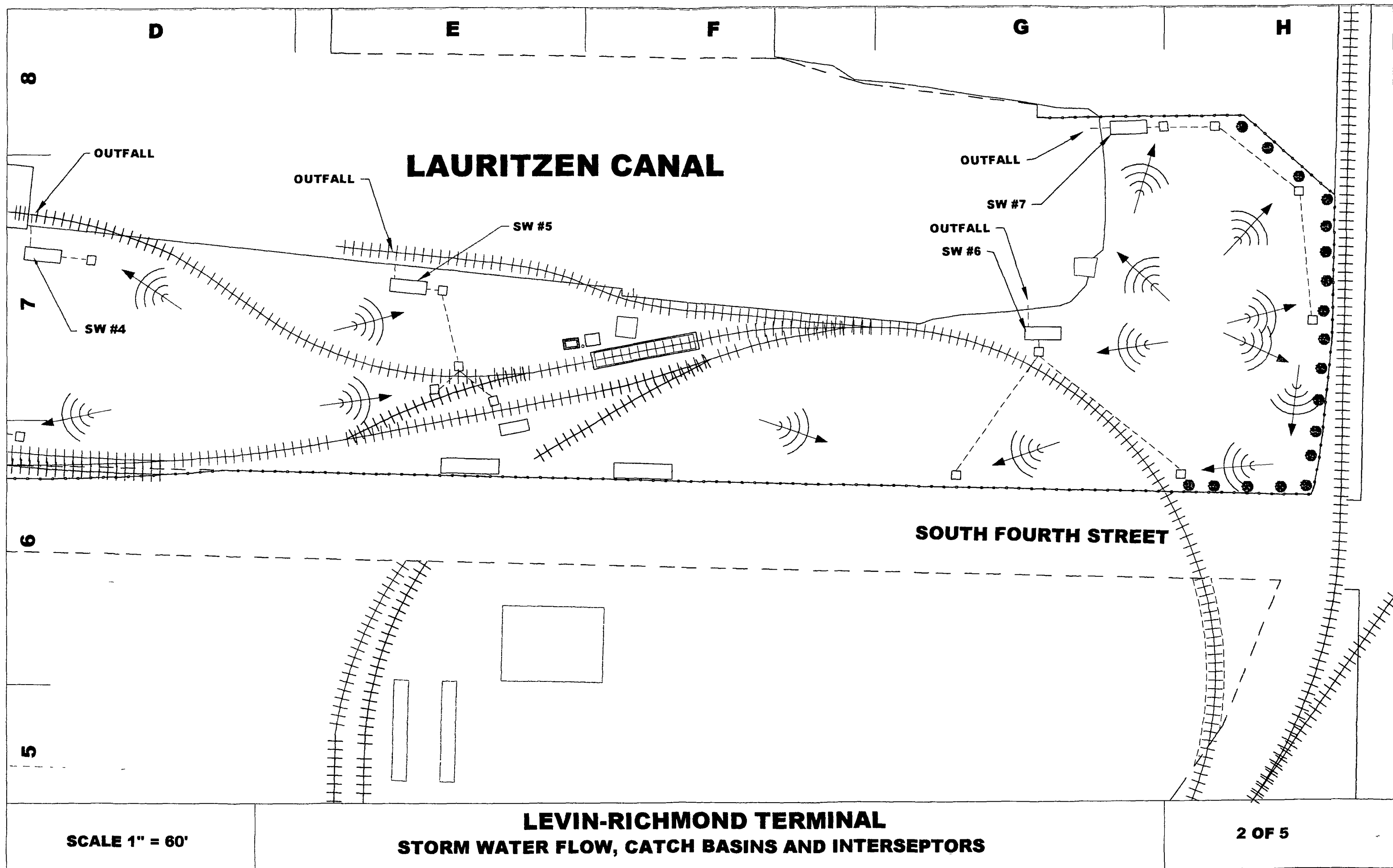


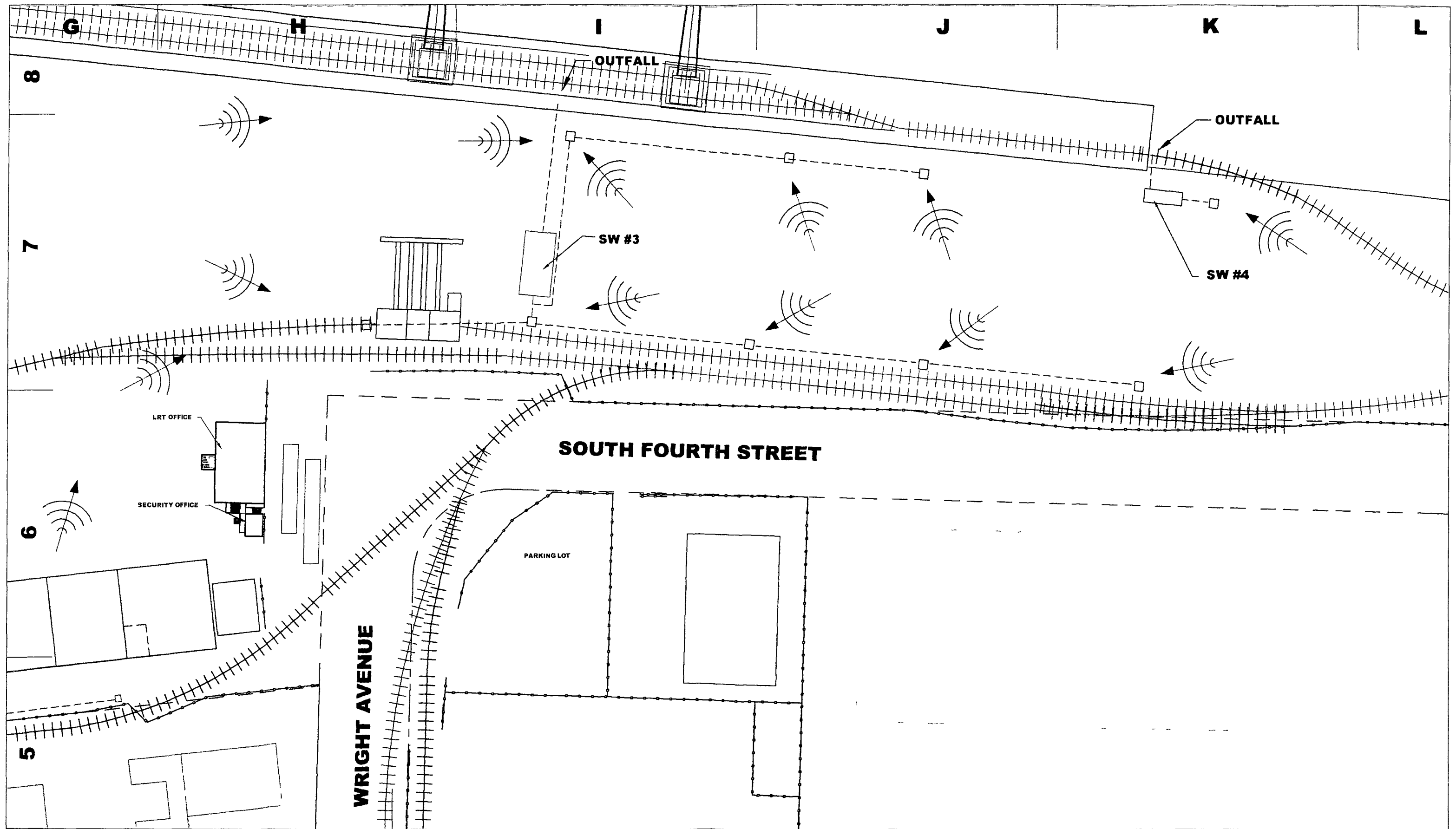


SCALE 1" = 200'

# **LEVIN-RICHMOND TERMINAL** **STORM WATER FLOW, CATCH BASINS AND INTERSEPTORS**

1 OF 5

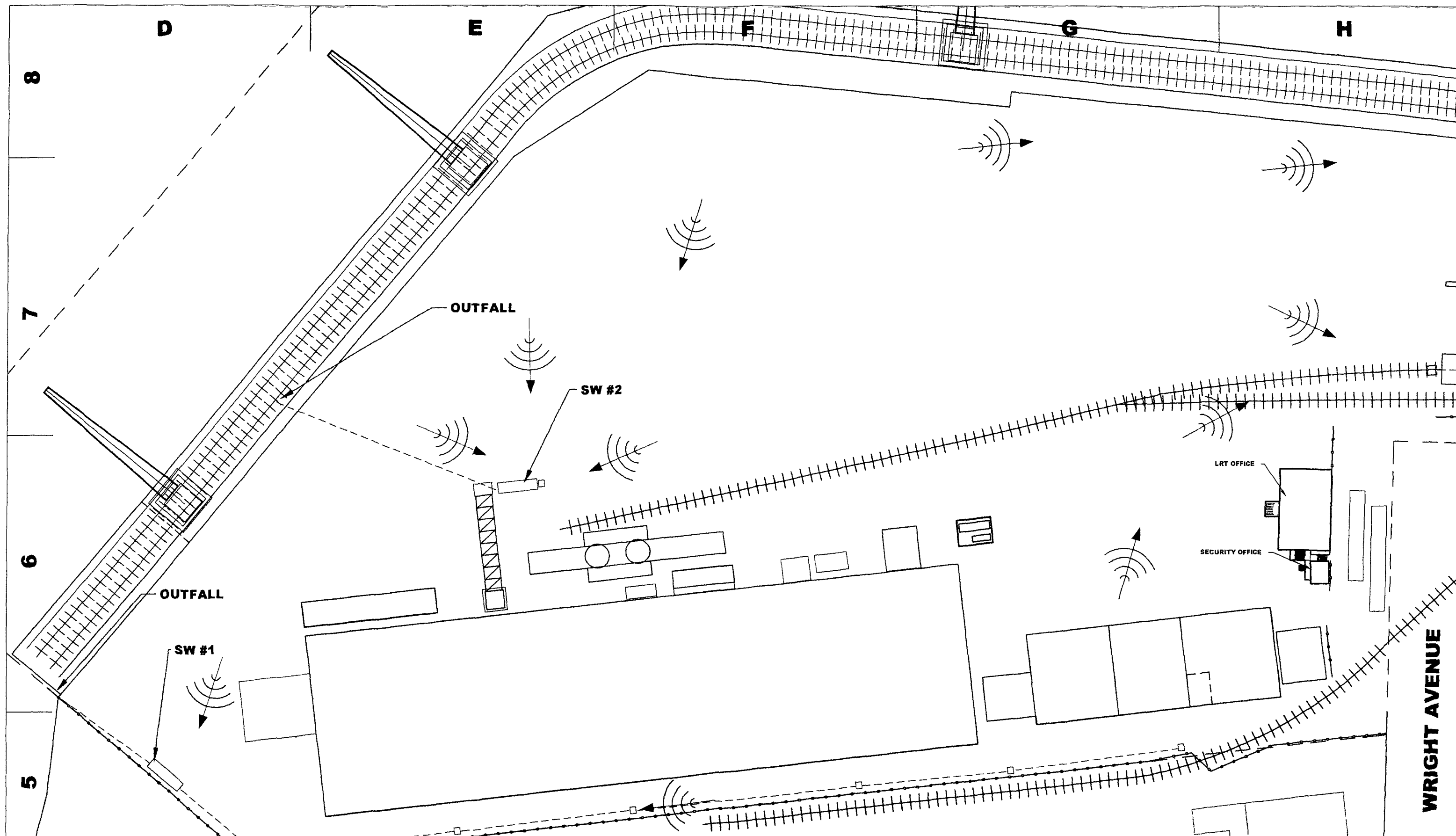




SCALE 1" = 60'

**LEVIN-RICHMOND TERMINAL**  
**STORM WATER FLOW, CATCH BASINS AND INTERSEPTORS**

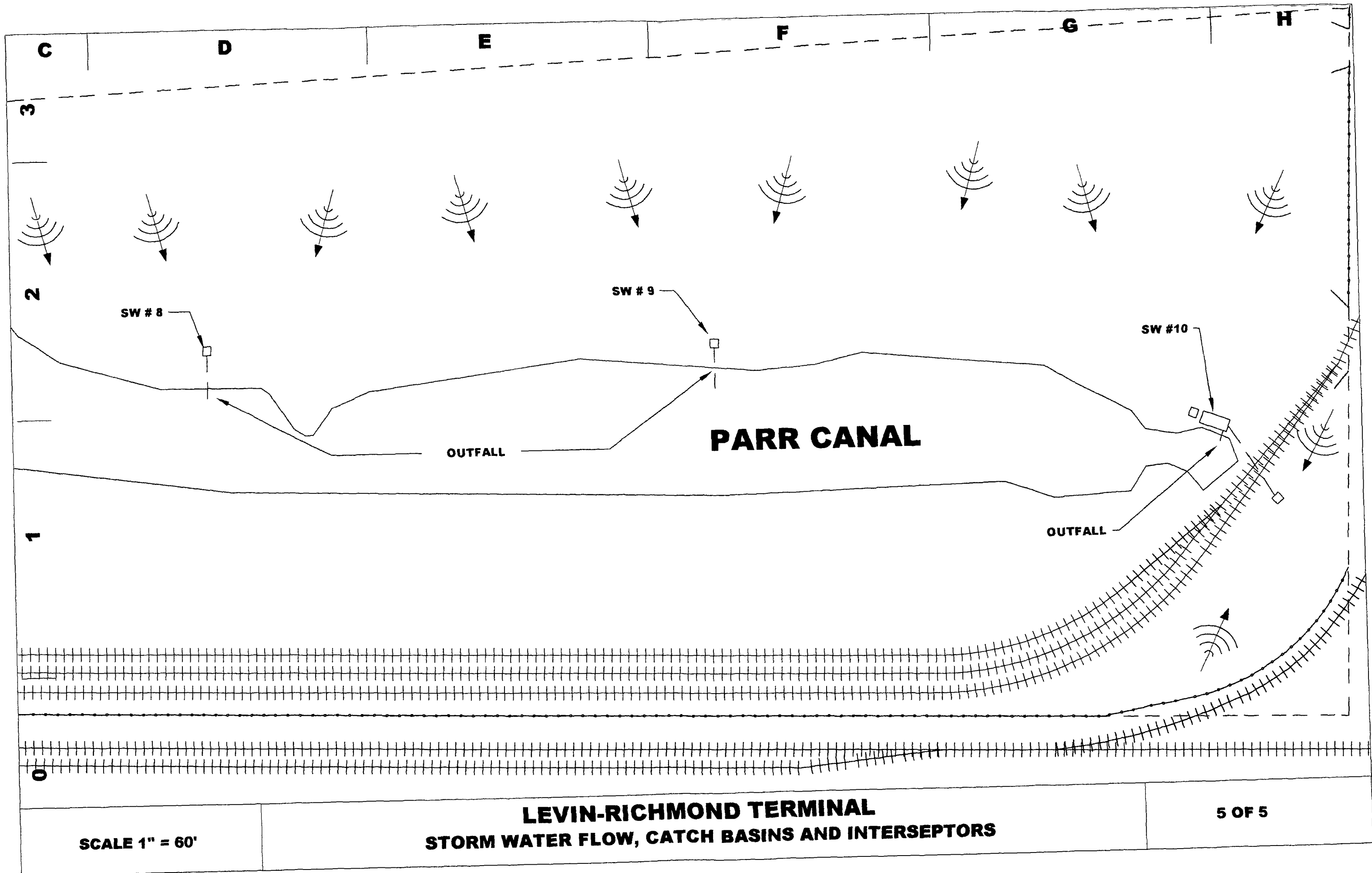
3 OF 5



SCALE 1" = 60'

**LEVIN-RICHMOND TERMINAL  
STORM WATER FLOW, CATCH BASINS AND INTERSEPTORS**

4 OF 5



**Appendix B**

**Clean Out Interceptor SW-2 Through SW-7  
Stormwater Composite Sample  
Laboratory Analytical Report**

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# Entech Analytical Labs, Inc.

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

June 05 2002

Helen Mawhinney  
Levin Richmond Terminal  
402 Wright Avenue  
Richmond, CA 94084

Order 30058  
Project Name Levin Richmond Terminal  
Project Number LRT  
Project Notes

Date Collected 05/20/02  
Date Received 05/21/02  
P O Number LRT

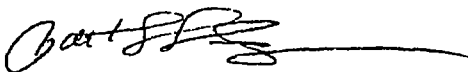
On May 21 2002 samples were received under documented chain of custody Results for the following analyses are attached

<u>Matry</u>	<u>Test</u>	<u>Method</u>
Liquid	Aluminum	EPA 200.7
	COD	EPA 410.4
	Composite	Composite
	Conductivity	EPA 120.1
	Copper	EPA 200.7
	EPA 8081A	EPA 8081A
	Gas/BTEX/MTBE	EPA 8015 MOD (Purgeable)
		EPA 8020
	Iron	EPA 200.7
	Lead	EPA 200.7
	Oil & Grease IR	EPA 413.2
	pH	EPA 150.1
	TPH as Diesel	EPA 8015 MOD (Extractable)
	TPH as Motor Oil	EPA 8015 MOD (Extractable)
	TSS	EPA 160.2
	Zinc	EPA 200.7

Chemical analysis of these samples has been completed. Summaries of the data are contained on the following pages. USEPA protocols for sample storage and preservation were followed.

Entech Analytical Labs, Inc. is certified by the State of California (#2346). If you have any questions regarding procedures or results, please call me at 408-588-0200.

Sincerely,



Pat Sandrock  
QA/QC Manager

*Environmental Analysis Since 1983*

# Entech Analytical Labs, Inc.

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

Levin-Richmond Terminal  
402 Wright Avenue  
Richmond, CA 94084  
Attn: Helen Mawhinney

Date 06/05/02  
Date Received 05/21/02  
Project Name Levin Richmond Terminal  
Project Number LRT  
P O Number LRT  
Sampled By Client

## Certified Analytical Report

Order ID	30058	Lab Sample ID	30058 007			Client Sample ID	SW 2 3 4,5 6,7(Composite)			
Sample Time	Sample Date			05/20/02		Matrix	Liquid			
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Diesel	470	x	1	50	50	µg/L	05/23/02	05/23/02	DW4184A	EPA 8015 MOD (Extractable)
				Surrogate		Surrogate Recovery		Control Limits ( / )		
				o Terphenyl		96.0		38 133		
Comment	Not a TPH as Diesel pattern Value due to a higher boiling hydrocarbon mixture, possibly Hydraulic Oil overlapping into the Diesel range									

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Motor Oil	800	x	1	250	250	µg/l	05/23/02	05/23/02	DW4184A	EPA 8015 MOD (Extractable)
					Surrogate o Terphenyl		Surrogate Recovery 96.0		Control Limits ( / ) 26 133	
Comment:	Not a TPH as Motor Oil pattern Value due to a heavy hydrocarbon mixture possibly Hydraulic Oil overlapping into the Motor Oil range									

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs Inc. (CA ELAP #2346)

  
Patti Sandrock, QA/QC Manager

Environmental Analysis Since 1983



# Entech Analytical Labs, Inc.

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

Levin-Richmond Terminal  
402 Wright Avenue  
Richmond, CA 94084  
Attn: Helen Mawhinney

Date 06/05/02  
Date Received 05/21/02  
Project Name Levin Richmond Terminal  
Project Number LRT  
P O Number LRT  
Sampled By Client

## Certified Analytical Report

Order ID 30058		Lab Sample ID 30058 007				Client Sample ID SW-2 3 4 5 6 7(Composite)				
Sample Time		Sample Date 05/20/02				Matrix Liquid				
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	ND		1	0.5	0.5	µg/L	N/A	05/24/02	WGC62449	EPA 8020
Toluene	ND		1	0.5	0.5	µg/L	N/A	05/24/02	WGC62449	EPA 8020
Ethyl Benzene	ND		1	0.5	0.5	µg/L	N/A	05/24/02	WGC62449	EPA 8020
Xylenes, Total	ND		1	1	1	µg/L	N/A	05/24/02	WGC62449	EPA 8020
Surrogate							Surrogate Recovery		Control Limits (%)	
4-Bromofluorobenzene							104.6		65 135	
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Methyl t-butyl Ether	ND		1	5	5	µg/L	N/A	05/15/02	WGC62449	EPA 8020
Surrogate							Surrogate Recovery		Control Limits (%)	
4-Bromofluorobenzene							104.6		65 135	
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
IPH as Gasoline	ND		1	50	50	µg/L	N/A	05/24/02	WGC62449	EPA 8015 MOD (Purgeable)
Surrogate							Surrogate Recovery		Control Limits (%)	
4-Bromofluorobenzene							101.2		65 135	

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs Inc (CA ELAP #2346)

  
Patti Sandrock, QA/QC Manager

Environmental Analysis Since 1983

# Entech Analytical Labs, Inc.

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

Levin-Richmond Terminal  
402 Wright Avenue  
Richmond, CA 94084  
Attn: Helen Mawhinney

Date 06/05/02  
Date Received 05/21/02  
Project Name Levin Richmond Terminal  
Project Number LRT  
P O Number LRT  
Sampled By Client

## Certified Analytical Report

Order ID	30058	Lab Sample ID	30058-007	Client Sample ID	SW-2,3,4,5,6 7(Composite)					
Sample Time	Sample Date			05/20/02	Matrix Liquid					
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Alpha BHC	ND		1	0.04	0.04	µg/L	05/22/02	05/22/02	PW6068A	EPA 8081A
Gamma BHC (Lindane)	ND		1	0.04	0.04	µg/L	05/22/02	05/22/02	PW6068A	EPA 8081A
Beta BHC	ND		1	0.04	0.04	µg/L	05/22/02	05/22/02	PW6068A	EPA 8081A
Heptachlor	ND		1	0.04	0.04	µg/L	05/22/02	05/22/02	PW6068A	EPA 8081A
delta BHC	ND		1	0.04	0.04	µg/L	05/22/02	05/22/02	PW6068A	EPA 8081A
Aldrin	ND		1	0.04	0.04	µg/L	05/22/02	05/22/02	PW6068A	EPA 8081A
Heptachlor Epoxide	ND		1	0.04	0.04	µg/L	05/22/02	05/22/02	PW6068A	EPA 8081A
Endosulfan I	ND		1	0.04	0.04	µg/L	05/22/02	05/22/02	PW6068A	EPA 8081A
4,4 DDE	ND		1	0.04	0.04	µg/L	05/22/02	05/22/02	PW6068A	EPA 8081A
Dieldrin	ND		1	0.04	0.04	µg/L	05/22/02	05/22/02	PW6068A	EPA 8081A
Endrin	ND		1	0.04	0.04	µg/L	05/22/02	05/22/02	PW6068A	EPA 8081A
4,4 DDD	ND		1	0.04	0.04	µg/L	05/22/02	05/22/02	PW6068A	EPA 8081A
Endosulfan II	ND		1	0.04	0.04	µg/L	05/22/02	05/22/02	PW6068A	EPA 8081A
4,4-DDT	ND		1	0.04	0.04	µg/L	05/22/02	05/22/02	PW6068A	EPA 8081A
Endrin Aldehyde	ND		1	0.04	0.04	µg/L	05/22/02	05/22/02	PW6068A	EPA 8081A
Endosulfan Sulfate	ND		1	0.04	0.04	µg/L	05/22/02	05/22/02	PW6068A	EPA 8081A
Methoxychlor	ND		1	0.04	0.04	µg/L	05/22/02	05/22/02	PW6068A	EPA 8081A
Endrin Ketone	ND		1	0.04	0.04	µg/L	05/22/02	05/22/02	PW6068A	EPA 8081A
Chlordane (technical)	ND		1	0.2	0.2	µg/L	05/22/02	05/22/02	PW6068A	EPA 8081A
Toxaphene	ND		1	0.2	0.2	µg/L	05/22/02	05/22/02	PW6068A	EPA 8081A
Surrogate						Surrogate Recovery		Control Limits (%)		
Decachlorobiphenyl						52.5		35 105		


DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

  
Patti Sandrock, QA/QC Manager

Environmental Analysis Since 1983

# Entech Analytical Labs, Inc.

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

Levin-Richmond Terminal  
402 Wright Avenue  
Richmond, CA 94084  
Attn: Helen Mawhinney

Date 06/05/02  
Date Received 05/21/02  
Project Name Levin Richmond Terminal  
Project Number LRT  
P O Number LRT  
Sampled By Chent

## Certified Analytical Report

Order ID 30058		Lab Sample ID 30058 007		Client Sample ID SW 2 3 4 5,6 7(Composite)				
Sample Time		Sample Date 05/20/02		Matrix Liquid				
Parameter	Result	DF	PQL	DLR	Units	Analysis Date	QC Batch ID	Method
COD	23	1	20	20	mg/L	06/04/02	WCOD020604	EPA 410.4
Conductance	270	1	1	1	µmhos/cm	05/22/02	WCOND020522	EPA 120.1
Oil and Grease Total	ND	1	5	5	mg/L	05/29/02	WOGIR020529	EPA 413.2
pH	7.4	1			STU	05/21/02	WPH020521	EPA 150.1
Total Suspended Solids	11	1	5	5	mg/L	05/23/02	WTSS020523	EPA 160.2


DF = Dilution Factor

ND = Not Detected

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Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

  
Pat Sandrock, QA/QC Manager

Environmental Analysis Since 1983

# Entech Analytical Labs, Inc.

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

Levin-Richmond Terminal  
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Attn: Helen Mawhinney

Date 06/05/02  
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Project Name Levin Richmond Terminal  
Project Number LRT  
P O Number LRT  
Sampled By Client

## Certified Analytical Report

Order ID 30058		Lab Sample ID 30058 007				Client Sample ID SW 2,3 4 5 6 7(Composite)			
Sample Time.		Sample Date 05/20/02				Matrix Liquid			
Parameter	Result	DF	PQL	DLR	Units	PrepDate	Analysis Date	QC Batch ID	Method
Aluminum	0.35	1	0.05	0.05	mg/L	05/22/02	06/04/02	WM8230	EPA 200.7
Copper	0.023	1	0.005	0.005	mg/L	05/22/02	06/04/02	WM8230	EPA 200.7
Iron	0.91	1	0.05	0.05	mg/L	05/22/02	06/04/02	WM8230	EPA 200.7
Lead	ND	1	0.015	0.015	mg/L	05/22/02	06/04/02	WM8230	EPA 200.7
Zinc	0.20	1	0.005	0.005	mg/L	05/22/02	06/04/02	WM8230	EPA 200.7

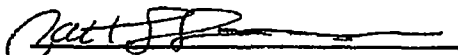
DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

  
Patti Sandrock, QA/QC Manager

Environmental Analysis Since 1983

# Entech Analytical Labs, Inc.

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## Quality Control Results Summary

QC Batch # PW6068A  
Matrix Liquid

Units  $\mu\text{g/L}$   
Date Analyzed 5/22/2002

Parameter	Method	Blank Result	Spike Sample ID	Spike Amount	Sample Result	Spike Result	QC Type	% Recovery	RPD	RPD Limits	Recovery Limits
Test EPA 8081A											
Aldrin	EPA 8081A	ND		0.1		0.0772	LCS	77.2			42.0 122.0
Dieldrin	EPA 8081A	ND		0.1		0.0946	LCS	94.6			52.0 126.0
Endrin	EPA 8081A	ND		0.1		0.1139	LCS	113.9			30.0 147.0
Gamma BHC (Lindane)	EPA 8081A	ND		0.1		0.0877	LCS	87.7			32.0 127.0
Heptachlor	EPA 8081A	ND		0.1		0.1057	LCS	105.7			34.0 111.0
Surrogate Decachlorobiphenyl											
				Surrogate Recovery		Control Limits (%)					
				74.4		35 105					
Test EPA 8081A											
Aldrin	EPA 8081A	ND		0.1		0.0883	LCSD	88.3	13.41	43.00	42.0 122.0
Dieldrin	EPA 8081A	ND		0.1		0.1012	LCSD	101.2	6.74	38.00	52.0 126.0
Endrin	EPA 8081A	ND		0.1		0.1235	LCSD	123.5	8.09	45.00	30.0 147.0
Gamma BHC (Lindane)	EPA 8081A	ND		0.1		0.1003	LCSD	100.3	13.40	50.00	32.0 127.0
Heptachlor	EPA 8081A	ND		0.1		0.1242	LCSD	124.2	16.09	31.00	34.0 111.0
Surrogate Decachlorobiphenyl											
				Surrogate Recovery		Control Limits (%)					
				79.8		35 105					

**Notes** The % recovery in the LCSD for Heptachlor is outside of laboratory control limits (high bias) but within % RPD limits. No samples associated with PW6068A had detectable levels of Heptachlor. No corrective action is required.

# Entech Analytical Labs, Inc.

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## Quality Control Results Summary

QC Batch # WOGIR020529  
Matrix Liquid

Units mg/L  
Date Analyzed 05/29/02

Parameter	Method	Blank Result	Spike Sample ID	Spike Amount	Sample Result	Spike Result	QC Type	% Recovery	RPD	RPD Limits	Recovery Limits
Test Oil & Grease IR											
Oil and Grease, Total	EPA 413.2	ND		209		240	LCS	114.8			60.0 140.0
Test Oil & Grease-IR											
Oil and Grease Total	EPA 413.2	ND		209		229	LCSD	109.6	4.69	25.00	60.0 140.0

*Environmental Analysis Since 1983*

# Entech Analytical Labs, Inc.

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## Quality Control Results Summary

QC Batch # DW4184A

Matrix Liquid

Units µg/L

Date Analyzed 05/23/02

Parameter	Method	Blank Result	Spike Sample ID	Spike Amount	Sample Result	Spike Result	QC Type	% Recovery	RPD	RPD Limits	Recovery Limits
Test	TPH as Diesel										
TPH as Diesel	EPA 8015 M	ND		1000		1102.27	LCS	110.2			37.6 135.0
	Surrogate			Surrogate Recovery		Control Limits (%)					
	o-Terphenyl			118.0		45 135					
Test.	TPH as Diesel										
TPH as Diesel	EPA 8015 M	ND		1000		1051.2	LCSD	105.1	4.74	25.00	37.6 135.0
	Surrogate			Surrogate Recovery		Control Limits (%)					
	o-Terphenyl			113.0		45 135					

# Entech Analytical Labs, Inc.

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## Quality Control Results Summary

QC Batch # WGC62449

Matrix Liquid

Units  $\mu\text{g/L}$   
Date Analyzed 05/23/02

Parameter	Method	Blank Result	Spike Sample ID	Spike Amount	Sample Result	Spike Result	QC Type	% Recovery	RPD	RPD Limits	Recovery Limits										
Test TPH as Gasoline																					
TPH as Gasoline	EPA 8015 M	ND		100		81.2	LCS	81.2			65.0 135.0										
<table><tr><td>Surrogate</td><td colspan="2">Surrogate Recovery</td><td colspan="2">Control Limits (%)</td></tr><tr><td>4-Bromofluorobenzene</td><td colspan="2">97.5</td><td colspan="2">65 135</td></tr></table>												Surrogate	Surrogate Recovery		Control Limits (%)		4-Bromofluorobenzene	97.5		65 135	
Surrogate	Surrogate Recovery		Control Limits (%)																		
4-Bromofluorobenzene	97.5		65 135																		
Test BTEX																					
Benzene	EPA 8020	ND		8		8.43	LCS	105.4			65.0 135.0										
Ethyl Benzene	EPA 8020	ND		8		8.07	LCS	100.9			65.0 135.0										
Toluene	EPA 8020	ND		8		7.99	LCS	99.9			65.0 135.0										
Xylenes total	EPA 8020	ND		24		25.65	LCS	106.9			65.0 135.0										
<table><tr><td>Surrogate</td><td colspan="2">Surrogate Recovery</td><td colspan="2">Control Limits (%)</td></tr><tr><td>4-Bromofluorobenzene</td><td colspan="2">98.3</td><td colspan="2">65 135</td></tr></table>												Surrogate	Surrogate Recovery		Control Limits (%)		4-Bromofluorobenzene	98.3		65 135	
Surrogate	Surrogate Recovery		Control Limits (%)																		
4-Bromofluorobenzene	98.3		65 135																		
Test MTBE by EPA 8020																					
Methyl t-butyl Ether	EPA 8020	ND		8		9.02	LCS	112.8			65.0 135.0										
<table><tr><td>Surrogate</td><td colspan="2">Surrogate Recovery</td><td colspan="2">Control Limits (%)</td></tr><tr><td>4-Bromofluorobenzene</td><td colspan="2">98.3</td><td colspan="2">65 135</td></tr></table>												Surrogate	Surrogate Recovery		Control Limits (%)		4-Bromofluorobenzene	98.3		65 135	
Surrogate	Surrogate Recovery		Control Limits (%)																		
4-Bromofluorobenzene	98.3		65 135																		
Test TPH as Gasoline																					
TPH as Gasoline	EPA 8015 M	ND		100		84.6	LCSD	84.6	4.10	25.00	65.0 135.0										
<table><tr><td>Surrogate</td><td colspan="2">Surrogate Recovery</td><td colspan="2">Control Limits (%)</td></tr><tr><td>4-Bromofluorobenzene</td><td colspan="2">94.8</td><td colspan="2">65 135</td></tr></table>												Surrogate	Surrogate Recovery		Control Limits (%)		4-Bromofluorobenzene	94.8		65 135	
Surrogate	Surrogate Recovery		Control Limits (%)																		
4-Bromofluorobenzene	94.8		65 135																		
Test BTEX																					
Benzene	EPA 8020	ND		8		7.24	LCSD	90.5	15.19	25.00	65.0 135.0										
Ethyl Benzene	EPA 8020	ND		8		7.24	LCSD	90.5	10.84	25.00	65.0 135.0										
Toluene	EPA 8020	ND		8		7.26	LCSD	90.8	9.57	25.00	65.0 135.0										
Xylenes total	EPA 8020	ND		24		22.39	LCSD	93.3	13.57	25.00	65.0 135.0										
<table><tr><td>Surrogate</td><td colspan="2">Surrogate Recovery</td><td colspan="2">Control Limits (%)</td></tr><tr><td>4-Bromofluorobenzene</td><td colspan="2">100.8</td><td colspan="2">65 135</td></tr></table>												Surrogate	Surrogate Recovery		Control Limits (%)		4-Bromofluorobenzene	100.8		65 135	
Surrogate	Surrogate Recovery		Control Limits (%)																		
4-Bromofluorobenzene	100.8		65 135																		
Test MTBE by EPA 8020																					
Methyl-t butyl Ether	EPA 8020	ND		8		7.72	LCSD	96.5	15.53	25.00	65.0 135.0										
<table><tr><td>Surrogate</td><td colspan="2">Surrogate Recovery</td><td colspan="2">Control Limits (%)</td></tr><tr><td>4-Bromofluorobenzene</td><td colspan="2">100.8</td><td colspan="2">65 135</td></tr></table>												Surrogate	Surrogate Recovery		Control Limits (%)		4-Bromofluorobenzene	100.8		65 135	
Surrogate	Surrogate Recovery		Control Limits (%)																		
4-Bromofluorobenzene	100.8		65 135																		

Environmental Analysis Since 1983



# Entech Analytical Labs, Inc.

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

## Quality Control Results Summary

QC Batch # WM8230  
Matrix Liquid

Units mg/L  
Date Analyzed 5/24/2002

Parameter	Method	Blank Result	Spike Sample ID	Spike Amount	Sample Result	Spike Result	QC Type	% Recovery	RPD	RPD Limits	Recovery Limits
Aluminum	EPA 200.7	ND		5		5.53	LCS	110.6			75.0 125.0
Antimony	EPA 200.7	ND		0.5		0.466	LCS	93.2			75.0 125.0
Arsenic	EPA 200.7	ND		0.5		0.523	LCS	104.6			75.0 125.0
Beryllium	EPA 200.7	ND		0.5		0.516	LCS	103.2			75.0 125.0
Cadmium	EPA 200.7	ND		0.5		0.536	LCS	107.2			75.0 125.0
Chromium	EPA 200.7	ND		0.5		0.52	LCS	104.0			75.0 125.0
Copper	EPA 200.7	ND		0.5		0.522	LCS	104.4			75.0 125.0
Iron	EPA 200.7	ND		5		5.35	LCS	107.0			75.0 125.0
Iron Dissolved	EPA 200.7	ND		5		5.35	LCS	107.0			75.0 125.0
Lead	EPA 200.7	ND		0.5		0.503	LCS	100.6			75.0 125.0
Manganese	EPA 200.7	ND		0.5		0.523	LCS	104.6			75.0 125.0
Nickel	EPA 200.7	ND		0.5		0.568	LCS	113.6			75.0 125.0
Selenium	EPA 200.7	ND		0.5		0.488	LCS	97.6			75.0 125.0
Silver	EPA 200.7	ND		1		1.18	LCS	118.0			50 125.0
Zinc	EPA 200.7	ND		0.5		0.532	LCS	106.4			75.0 125.0
Aluminum	EPA 200.7	ND		5		5.54	LCSD	110.8	0.18	25.00	75.0 125.0
Antimony	EPA 200.7	ND		0.5		0.483	LCSD	96.6	0.58	25.00	75.0 125.0
Arsenic	EPA 200.7	ND		0.5		0.505	LCSD	101.0	3.50	25.00	75.0 125.0
Beryllium	EPA 200.7	ND		0.5		0.519	LCSD	103.8	0.58	25.00	75.0 125.0
Cadmium	EPA 200.7	ND		0.5		0.536	LCSD	107.2	0.00	25.00	75.0 125.0
Chromium	EPA 200.7	ND		0.5		0.522	LCSD	104.4	0.38	25.00	75.0 125.0
Copper	EPA 200.7	ND		0.5		0.522	LCSD	104.4	0.00	25.00	75.0 125.0
Iron	EPA 200.7	ND		5		5.35	LCSD	107.0	0.00	25.00	75.0 125.0
Iron Dissolved	EPA 200.7	ND		5		5.35	LCSD	107.0	0.00	25.00	75.0 125.0
Lead	EPA 200.7	ND		0.5		0.501	LCSD	100.2	0.40	25.00	75.0 125.0
Manganese	EPA 200.7	ND		0.5		0.523	LCSD	104.6	0.00	25.00	75.0 125.0
Nickel	EPA 200.7	ND		0.5		0.564	LCSD	112.8	0.71	25.00	75.0 125.0
Selenium	EPA 200.7	ND		0.5		0.493	LCSD	98.6	1.02	25.00	75.0 125.0
Silver	EPA 200.7	ND		1		1.19	LCSD	119.0	0.84	25.00	75.0 125.0
Zinc	EPA 200.7	ND		0.5		0.532	LCSD	106.4	0.00	25.00	75.0 125.0

Environmental Analysis Since 1983

# CHROMALAB, INC.

Environmental Services (SDB) (DOHS 1094)

Sample SW-2 through SW-7  
Composite as one Sample  
1220 Quarry Lane Pleasanton California 94566 4756  
(925) 484 1919 • Fax (925) 484 1096

Reference #

Chain of Custody

DATE 5-20-02 PAGE 1 of 1

PROJECT INFORMATION				ANALYSIS REPORT																					
PROJ MGR	COMPANY	ADDRESS	SAMPLERS (SIGNATURE)	(PHONE NO)	(FAX NO)	TPH (EPA 8015 R0701)	PURGEABLE AROMATICS (EPA 8020)	TPH-Diesel (EPA 8015M)	TEPE (EPA 8015M)	PURGEABLE HALOCARBONS (EPA 8010)	VOLATILE ORGANICS (VOCs) (EPA 8260)	SEMI-VOLATILES (EPA 8270)	Oil & Grease (Petrol & Total) (EPA 1664)	PESTICIDES (EPA 8081)	PNA s by (EPA 8270)	Spec. Cond. (EPA 8270)	PH	LUFT METALS (Cd, Cr, Pb, Ni, Zn)	CAM 17 METALS (EPA 8210/7470/7471)	TOTAL LEAD	DWLT (STLC) (EPA 8210)	Heavy Metal Chromium (EPA 8210/7470/7471)	AL, CO, P, S, ZN, FE, Pb	NUMBER OF CONTAINERS	
250 mL Plastic	5/24/02		H <sub>2</sub> O	HNO <sub>3</sub>																					1
40 ML VOA	5/20/02		" "	H <sub>2</sub> L																					3
500 ML Plastic	5/20/02		" "	None																					1
1 Amber Liter	5/20/02		" "	None																					1
500 ML Plastic	5/20/02		" "	H <sub>2</sub> SO <sub>4</sub>																					1
1 Liter Amber	5/20/02		" "	H <sub>2</sub> L																					1
1 Liter Amber	5/20/02		" "	None																					1

PROJECT INFORMATION				SAMPLE RECEIPT				RELINQUISHED BY 1		RELINQUISHED BY 2		RELINQUISHED BY 3	
PROJECT NAME	Levin Richmond T	TOTAL NO OF CONTAINERS		SIGNATURE	HELEN MAURINACE	SIGNATURE	ETS FRIDGE	SIGNATURE	HELEN MAURINACE	SIGNATURE	ETS FRIDGE	SIGNATURE	HELEN MAURINACE
PROJECT NUMBER	LRT	HEAD SPACE		(PRINTED NAME)	HELEN MAURINACE	(PRINTED NAME)	ETS FRIDGE	(PRINTED NAME)	HELEN MAURINACE	(PRINTED NAME)	ETS FRIDGE	(PRINTED NAME)	HELEN MAURINACE
POI		TEMPERATURE		(DATE)	5/20/02	(DATE)	5/20/02	(DATE)	5/20/02	(DATE)	5/20/02	(DATE)	5/20/02
TAT	STANDARD 5 DAY	CONFORMS TO RECORD		(COMPANY)		(COMPANY)		(COMPANY)		(COMPANY)		(COMPANY)	
SPECIAL INSTRUCTIONS/COMMENTS				RECEIVED BY 1		RECEIVED BY 2		RECEIVED BY 3		RECEIVED BY (LABORATORY)			
Report: <input type="checkbox"/> Routine <input type="checkbox"/> Level 2 <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 <input type="checkbox"/> Electronic Report				SIGNATURE		SIGNATURE		SIGNATURE		SIGNATURE		SIGNATURE	
email: ZACON1@aol.com				(PRINTED NAME)		(PRINTED NAME)		(PRINTED NAME)		(PRINTED NAME)		(PRINTED NAME)	
Fax: 510-236-9235				(DATE)		(DATE)		(DATE)		(DATE)		(DATE)	
510 522 6259				(COMPANY)		(COMPANY)		(COMPANY)		(COMPANY)		(COMPANY)	

									Se	Si	Fe	Sn	Fe	V	Zn	W	CAM 17	<input checked="" type="checkbox"/>	Plating	<input type="checkbox"/>	PFM 15	<input type="checkbox"/>	LOP 15	<input type="checkbox"/>
--	--	--	--	--	--	--	--	--	----	----	----	----	----	---	----	---	--------	-------------------------------------	---------	--------------------------	--------	--------------------------	--------	--------------------------